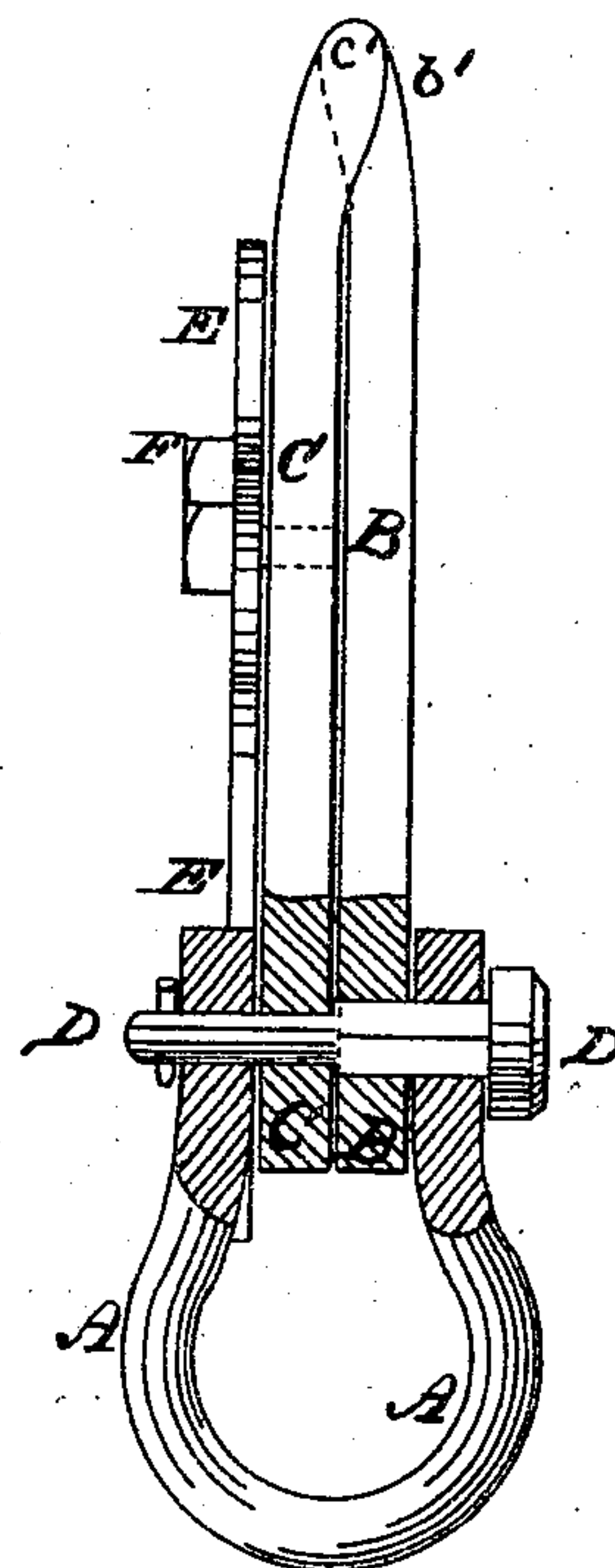
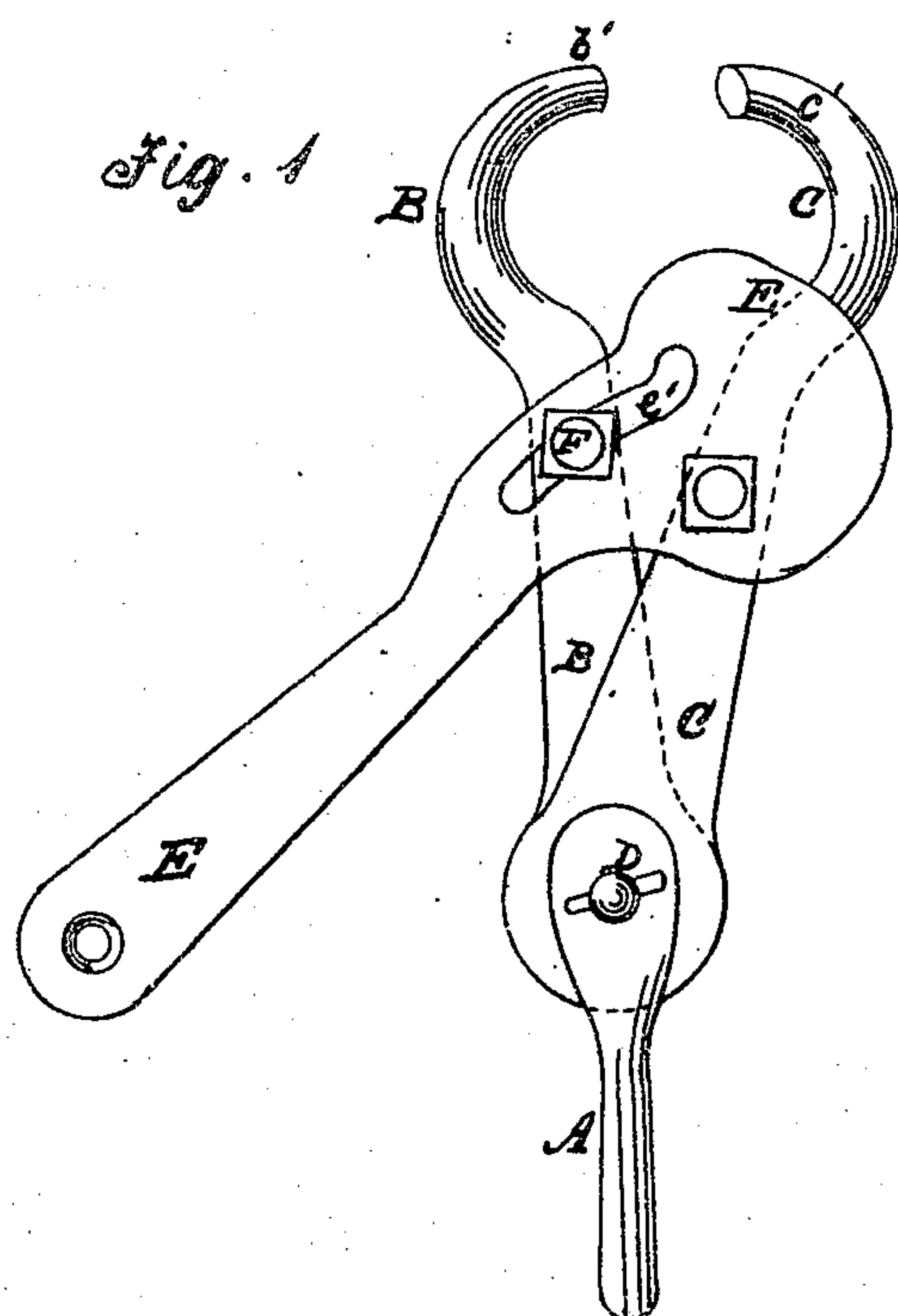


M. A. Lanagan
Boat-Detaching Apparatus.
Nº 72866 *Patented Dec. 31, 1868.*



Witnesses.
Theo. Inseher
W. Brown

Inventor.
M. A. Lanagan
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Attorneys

United States Patent Office.

MICHAEL A. LANAGAN, OF BROOKLYN, N. Y., ASSIGNOR TO HIMSELF, JOHN DAILEY, ROBERT RUSSELL, AND ANDREW MERCEIN, OF SAME PLACE.

Letters Patent No. 72,866, dated December 31, 1867.

IMPROVEMENT IN BOAT-DETACHING APPARATUS.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, MICHAEL A. LANAGAN, of Brooklyn, in the county of Kings, and State of New York, have invented a new and improved Detacher and Anchor-Stopper; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which

Figure 1 is a side view of my improved detacher and anchor-stopper.

Figure 2 is an edge view of the same, part being broken away to show the construction.

Similar letters of reference indicate corresponding parts.

My invention has for its object to furnish a simple, safe, and effective device, designed especially for use as a boat-detacher, and as an anchor-stopper, but equally useful for other purposes, wherever it is desired to detach a suspended object; and it consists in the combination of the slotted lock and trip-lever with the hooked bars, as hereinafter more fully described.

A is an ordinary clevis, by which the detacher is permanently secured to an eyebolt or other support attached to the boat. B and C are two hooked bars, the lower ends of which are placed side by side between the ends or arms of the clevis A, to which they are connected by a bolt, D. The hole through one of the bars, as B, and through one of the ends or arms of the clevis A, is made square, to receive and fit upon the square part of the bolt D, so that the said bar or hook, B, may be held stationary. The hole through the lower end of the other bar or hook, as C, and through the other end or arm of the clevis A, is made round, to fit and work upon the round part of the bolt D. For some uses, the whole of the bolt D should be made round, so that both the bars B and C may work freely thereon. Upon the upper ends of the bars B and C are formed hooks *b'* and *c'*, the ends or points of which are bent a little to one side, so that the said ends may meet to grasp the ring of the tackle-block, anchor, or other object to be held. E is the lock and trip-lever, the upper end of which is pivoted to one of the hooked bars, as C, and is connected to the other bar, as B, by the stop-pin F, rigidly attached to said bar, and which passes through and works in a curved slot, *e'*, formed in the said lock and trip-lever E, as shown in fig. 1. The upper end of the slot *e'* is slightly curved back, so as to form a slight cavity to receive and more securely hold the pin F, when the instrument is locked. To the lower end of the lever E may be attached a cord, bar, or other device, which passes thence to any convenient place from which it is desired to operate the detacher to detach the suspended object. In the case of a boat or other object that requires two or more detachers to be used, the trip-ropes or bars of all the detachers should be brought to the same place, and so arranged that they may all be operated at the same time, and by one movement, when desired, and at the same time so that they may be operated alone, when necessary.

What I claim as my invention, and desire to secure by Letters Patent, is—

The combination of the slotted lock and trip-lever E with the hooked bars B and C, substantially as herein shown and described, and for the purpose set forth.

The above specification of my invention signed by me, this 15th day of October, 1867.

M. A. LANAGAN,

Witnesses:

WM. F. McNAMARA,
JAMES T. GRAHAM.